# **RESUME OF SEBASTIAN WOODWARD (2025)**

A 2<sup>nd</sup> Year PHD student at the University of Oxford.

## WORK EXPERIENCE

Date	Location	Role	Description
June 2016	Brent Knoll Primary School Brent Street Brent Knoll TA9 4EQ	Teaching Assistant	My main role was helping to teach mathematics and science to KS1 and KS2 pupils. I sat with a group of higher-level students in a class, encouraging them to undertake problem solving tasks, whilst the class teacher was concentrating on assisting the other pupils. I helped the head teacher to review the operation of the school computer system, used to record grades etc., and to improve the performance of the programmes used by making them more user friendly and streamlined.
MAY 2018	University of Oxford, Radcliffe Observatory, Andrew Wiles Building, Woodstock Rd, Oxford OX2 6GG	IT Assistant	My main role was helping out with the computer system in the mathematics department and other administration tasks. The main task I was given to check the format of the mathematics department website and report any errors to my supervisor and then together we fixed the errors.
JUNE 2018	Hugh Sexey C of E Middle School Sexey's Road Blackford BS28 4ND	Teaching Assistant	My main role was being a teaching assistant for mathematics in KS2 mainly focusing on projects and preparation for starting KS3. I mainly helped those of a higher level to make there projects on percentages and areas to be more sophisticated and realistic.
MARCH 2019 - MARCH 2021	Brent Knoll	Tutor / Self- employed	I have been a paid tutor for 3 students at different academic levels; A-Level KS2, GCSE. For each of these students I created lesson plans based on what they were being taught in school and came up with different ways of testing their understanding whether it be through

			problem sheets or via discussion over questions.
September 2022 – July 2023	Maths Institute University of Warwick CV4 7AL	Graduate teaching assistant - supervisor	I have been selected to be an undergraduate supervisor meaning that I am responsible for both marking some first year assignments and helping them with any part of the modules they are stuck with.
	Magdalen College Oxford	Out of college tutor	Teaching Prelims Linear Algebra 2 for first year students
	St Edmund Hall	Out of college tutor	Teaching two visiting students a first year course
October 2023 – July 2025	Mathematics Institute, University of Oxford	Departmental teaching	TA for Geometry of Surfaces and Functional Analysis II Tutor for Functional Analytic method for PDEs and Distribution Theory.

## **EDUCATION**

Date	Institution	Qualification	Achievements
SEPTEMBER 2014 - JULY 2017	The Kings of Wessex Academy	GCSEs	Achieved 13 GCSEs including 9 in Mathematics, A^ in Further Mathematics, 8 in English Language
JULY 2017 - SEPTEMBER 2019	The Kings of Wessex Academy (Sixth Form)	A-Levels	A* in Further Maths and Maths, A in Physics and Computer Science
SEPTEMBER 2019 - JULY 2023	University of Warwick	Integrated Master's Degree in Mathematics	First class masters in mathematics with honours
September 2023 – July 2027	University of Oxford	DPhil in Mathematics	

ADDITIONAL ACHIEVEMENTS

Brent Knoll Primary school, Fairlands Middle School, The Kings of Wessex Academy / Gifted and Talented in Mathematics

Fairlands Middle School / Gifted and Talented Residential Course Mathematics Residential course at Kilve Court Somerset run by Professor Berry from Oxbridge.

#### **SEPTEMBER 2013 - 2014**

#### Fairlands Middle School / Radio Team

I was one of the students who was given the opportunity to run set up and run the school radio primarily through the 2014 World Cup. This involved both planning what songs to be played and problem solving when errors with the system occurred.

Fairlands Middle School, The Kings of Wessex Academy / UKMT Silver award

#### The Kings of Wessex Academy / Access to Bristol

This was a 6 week course based at the University of Bristol exploring degree level mathematics and getting a rst experience of university life. This entailed both lectures about general university life but also weekly seminars on various higher level mathematics topics involving both group work and sophisticated problem solving.

#### SEPTEMBER 2018 - JULY 2019

#### The Kings of Wessex Academy / Senior Team

I was one of the students tasked with overseeing the student running of the school and contributed to planning both sports day and charity events. Also, I proposed the creation of a school council which is now in place.

#### <u>JULY 2020 – JULY 2022</u>

#### Warwick University / Lego Society President

I have been the president of the Lego society for the past two years and this involves the general running of the society, completing risk assessments and purchasing new sets.

#### MAY 2022 - JULY 2023

#### Warwick University / Maths Society Academic Support

I have been recently elected to be one of the maths society academic support offices, this mainly involves the running of the weekly maths cafes, but I have also organised revision sessions for various 2nd year modules.

#### September 2022 – JULY 2023

#### Warwick University / Maths Supervisor

I have been selected to be an undergraduate supervisor meaning that I am responsible for both marking some first year assignments and helping them with any part of the modules they are stuck with.

### EXTRA ACTIVITIES

I have been a paid tutor for students in A-Level, GCSEs and KS2, in doing the tutoring I was able to better my skills in both teaching and planning the sessions to be the most effective. Moreover, I have been helping fellow students in my university degree regarding both lectured content and the problem sheets which has been very helpful at improving my teaching skills as I have had experience tutoring/teaching students in a variety of educational settings.

Skill	Level
Tutoring	Reasonably experienced
Coding	Experienced

## HOBBIES AND INTERESTS

- Lego
- Magic the Gathering
- Walking
- Mathematics

#### **Research Interests:**

In October 2023 I started a DPhil in Mathematics at the University of Oxford under the supervision of Professor Melanie Rupflin with an EPSRC scholarship UKRI reference 2879243 . My main research interests are in stability estimates for singular minimisers of energy functionals and their applications to spectral theory and other areas of geometric analysis.